

CLAIMS

1. An aircraft air conditioning system for conditioning of the cabin and/or cockpit air, comprising an air re-circulation circuit (13, 14, 15, 16) and a UVC radiation unit (12) positioned so as to irradiate air in the re-circulation circuit (13, 14, 15, 16) with ultra violet light.
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2. An air conditioning system as claimed in claim 1 comprising a re-circulation (14) fan having the inlet thereof connected to a mechanical filter (33), and the output connected to a mixer unit (13) adapted to mix re-circulated air supplied to the mixer unit (13) by the fan (14), the UVC radiation unit (12) being positioned so as to irradiate the re-circulated air with ultra violet light at a wavelength of 253.7 nm.
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3. An air conditioning system as claimed in claim 2 in which the irradiation unit (12) is located in a plenum chamber (40) which feeds the re-circulated air to the mechanical filters (33).
- 15 4. An air conditioning system as claimed in claim 3 in which the plenum chamber (40) is a chamber which receives re-circulated air from various air outlets from the cabin and/or cockpit.
5. An air conditioning system as claimed in claim 4 in which the air re-circulation fan (14), mechanical filters (33) and mixer unit (13) are located in the fuselage below the passenger cabin and substantially in line with the roots of the aircraft wings.
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6. An air conditioning system as claimed in claim 4 or claim 5 in which the UVC emitters (41) are located in a plenum chamber (40) to which the mechanical filters (33) are exposed for ingesting re-circulated air from the plenum chamber (40).
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7. An aircraft fitted with an air conditioning system as claimed in any one of the preceding claims.

8. A kit of parts for providing an aircraft with an air conditioning system as claimed in any one of claims 1 to 6.